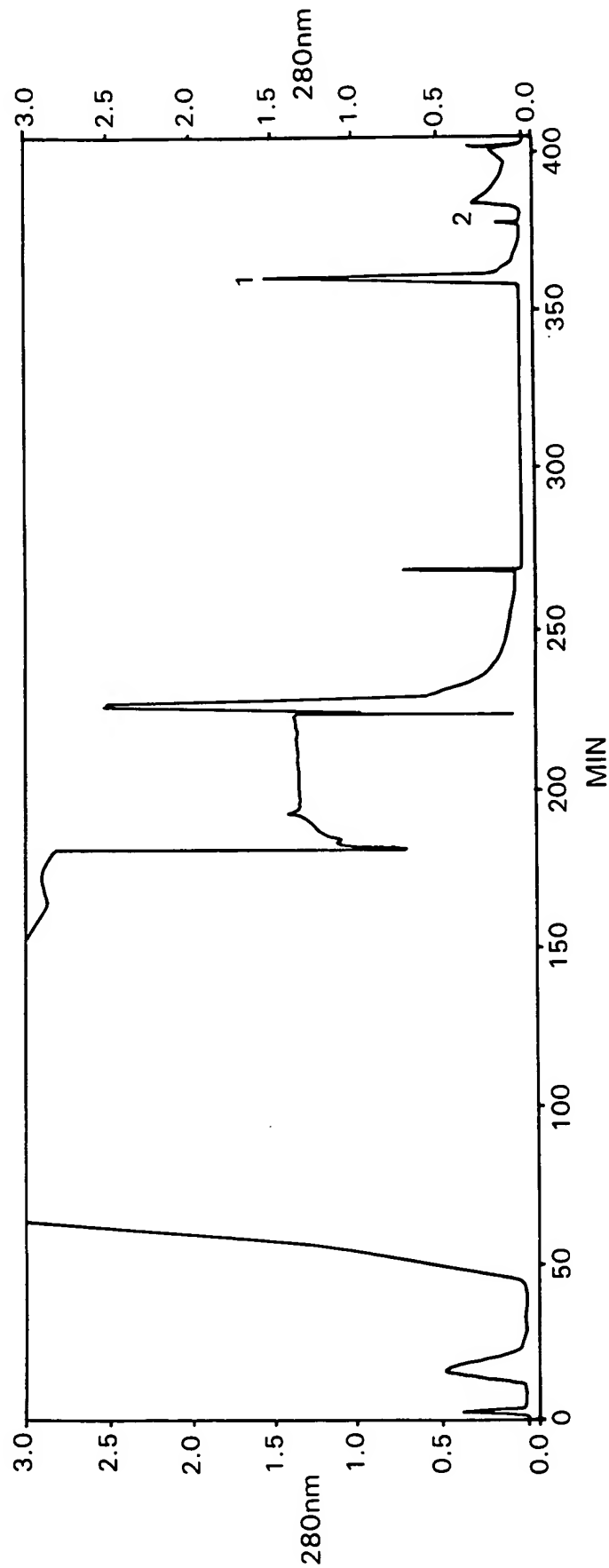


FIG. 1A



**FIG. 1B**

BEST AVAILABLE COPY

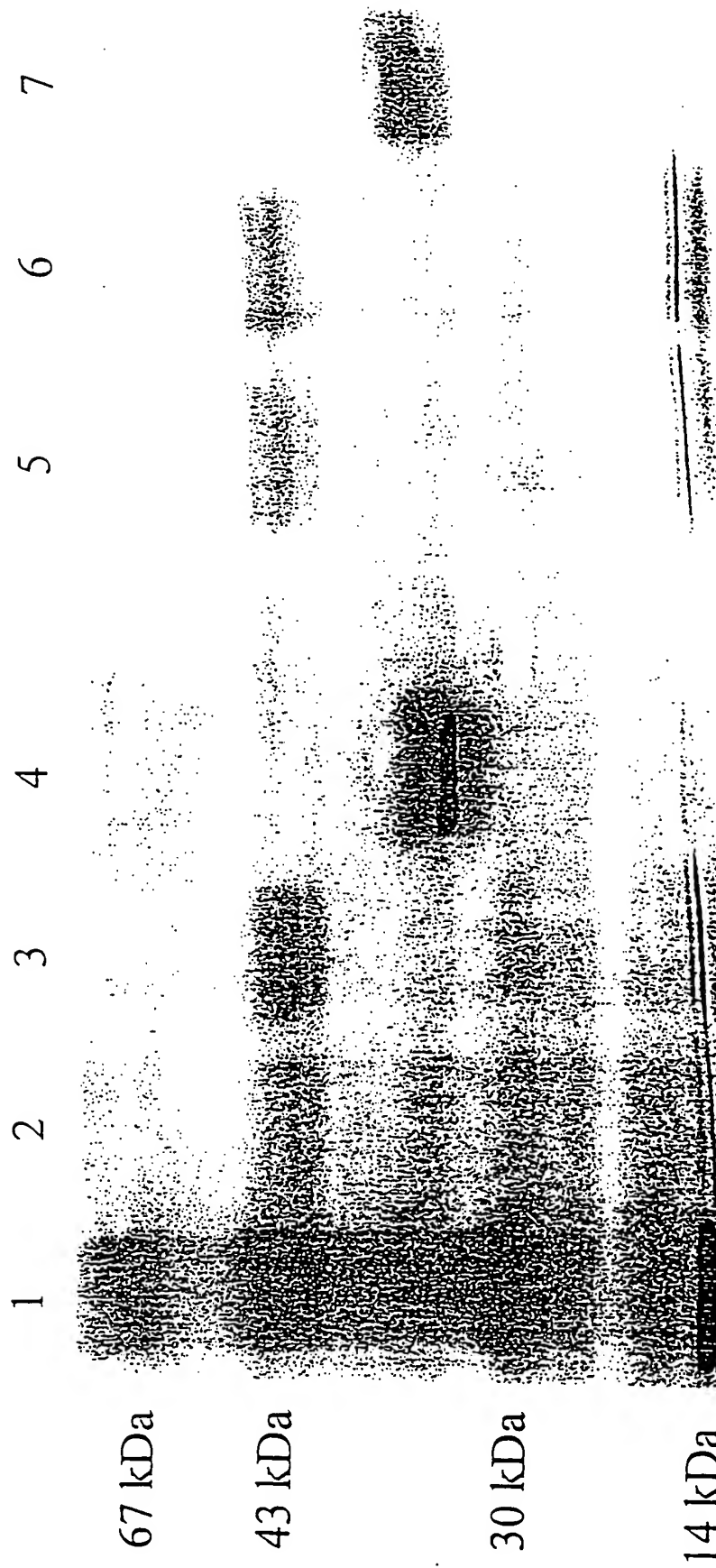
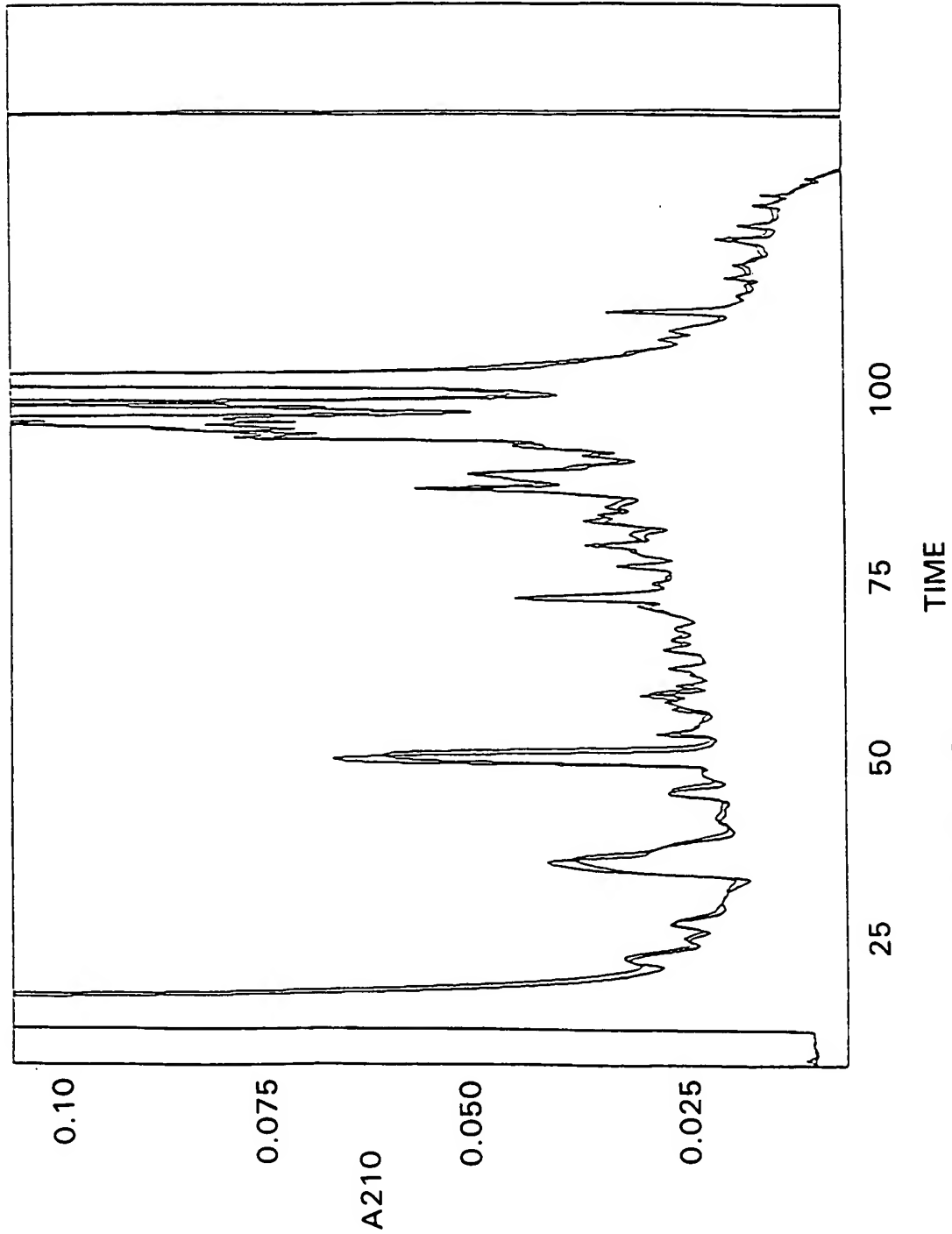
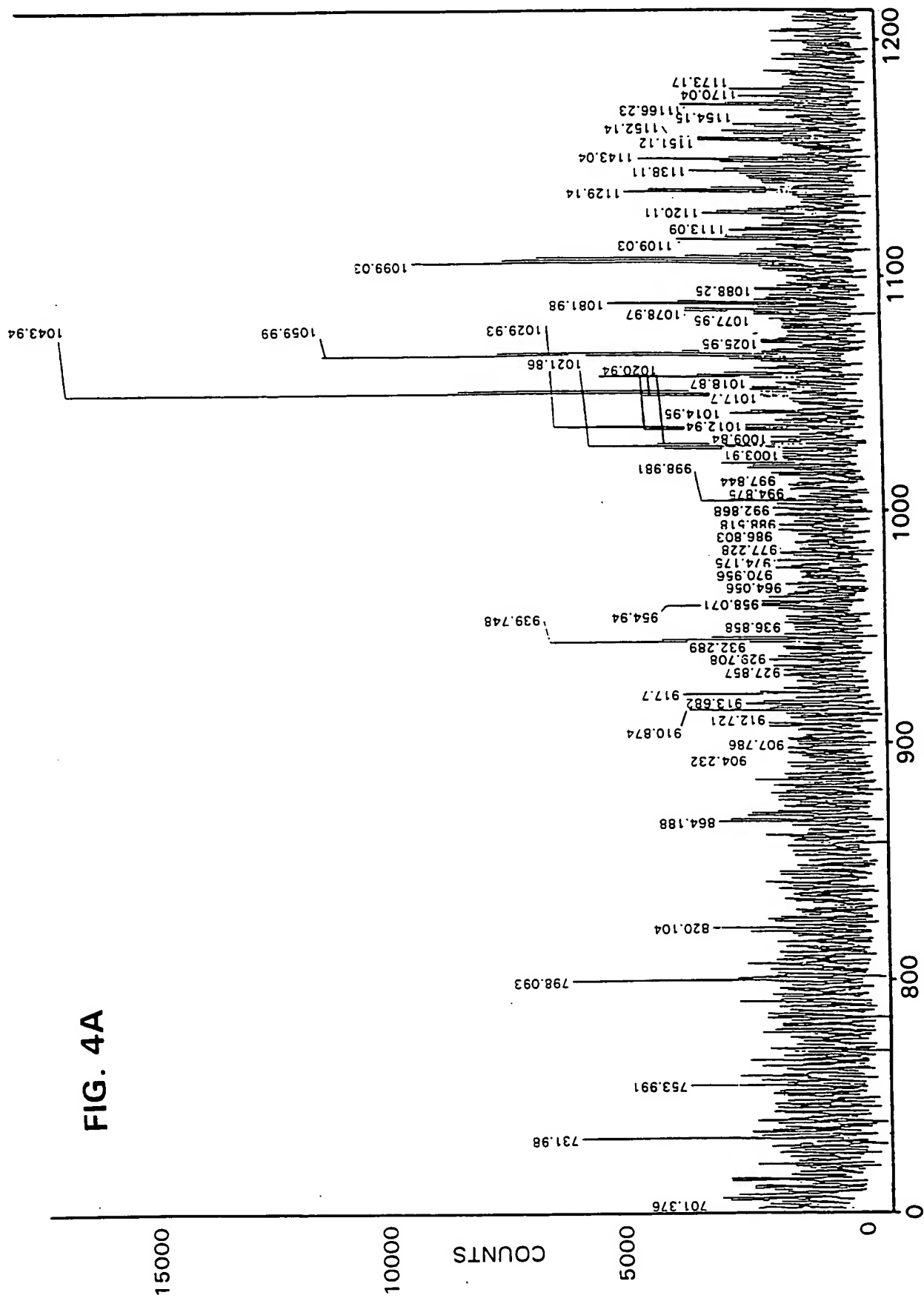


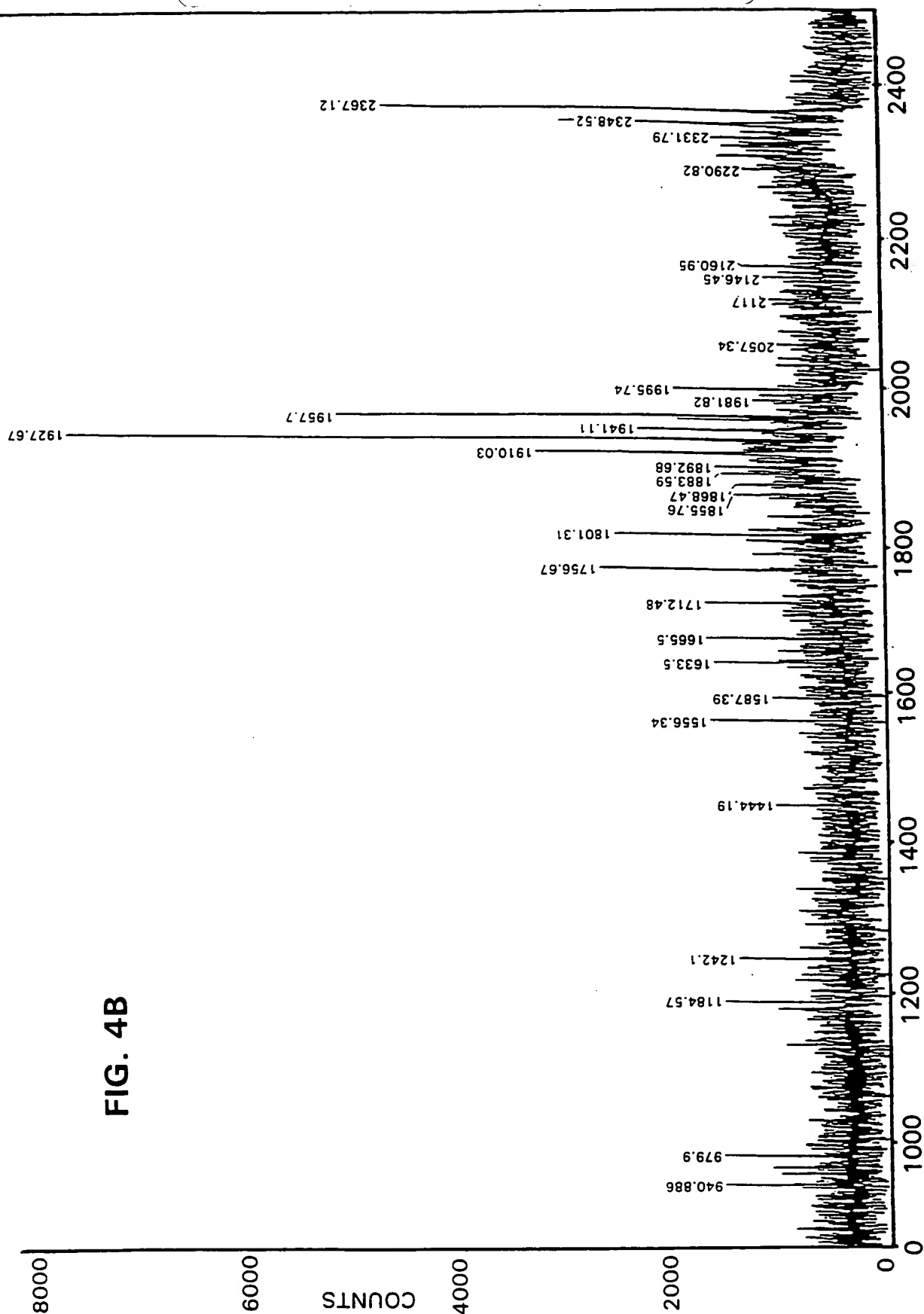
FIG. 2



**FIG. 3**

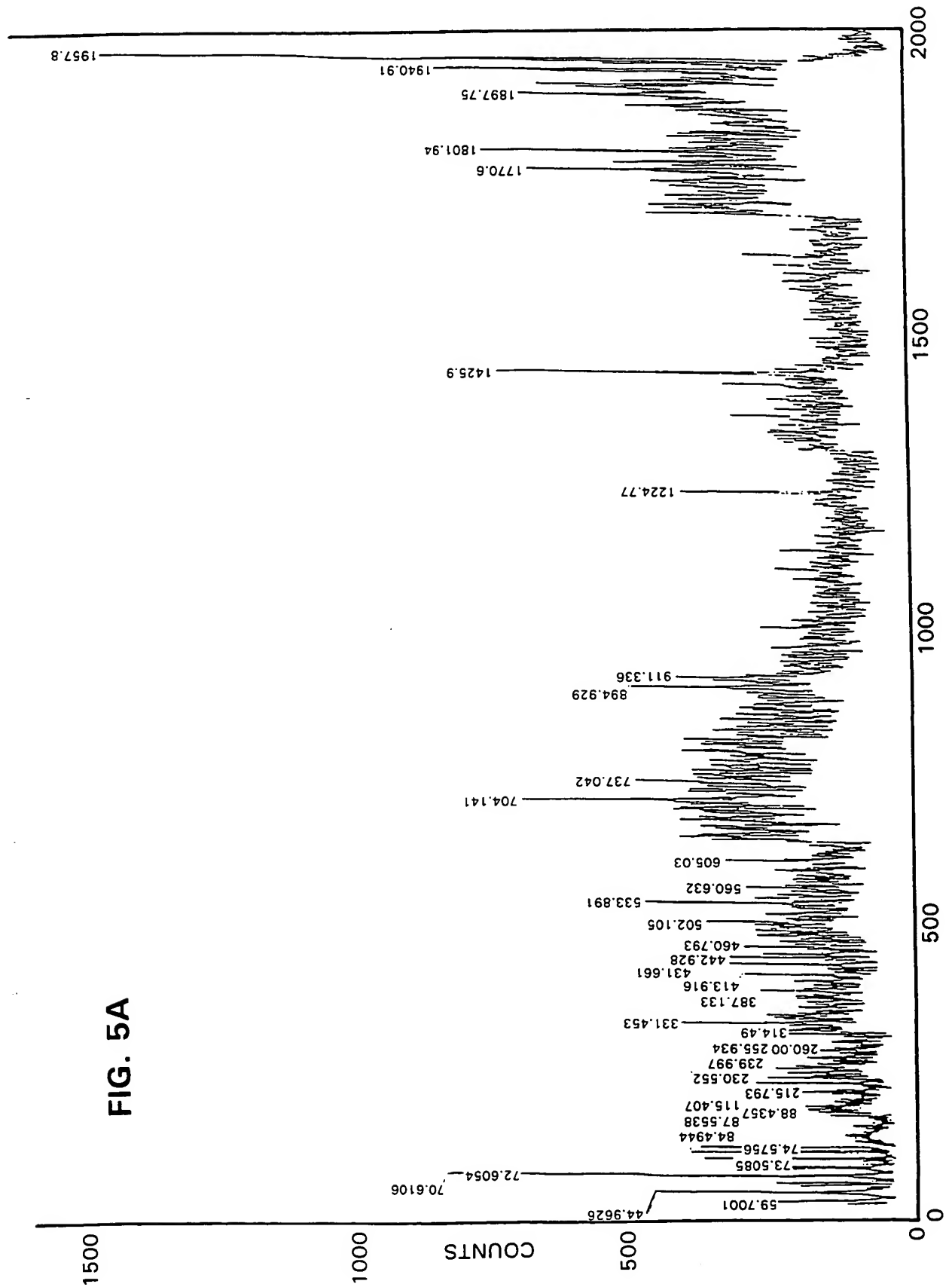
ST AVAILABLE COPY





BEST AVAILABLE COPY

FIG. 5A



## PROFILING AND CATALOGING EXPRESSED PROTEIN TAGS

Sample ID (comment): R4A3F37m1957

Database searched: NCBI nr.7.5.97

Molecular weight search (1000-100000 Da) selects 269572 entries.

Species search (HOMO SAPIENS) selects 22771 entries.

Combined molecular weight and species searches select 20933 entries.

Number of sequences passing through parent mass filter: 84015

search selects 257 entries

Ion Types Considered: a b y n h i

Search Mode Identity	Max. # Unmatched Ions	Peptide Masses are Par(m)Frag(av)	Digest Used No enzyme	Max. # Missed Cleavages	Cysteines Modified by unmodified	Peptide N terminus Hydrogen (H)	Peptide C terminus Free Acid (O II)	Result Summary	
								MH+ Error (Da)	# Unmatched Ions
Rank	MS-Digest Index#	NCBI nr.7.597 Accession#	Protein MW (Da)	Species	Calculated MH+ (Da)	MH+ Error (Da)	Sequence	Protein Name	
1	240839	1819795	21251.4	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFDSDAASQR(M)	(D82930) HLA-A26-variant	2
1	152874	915219	40679.8	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFDSDAASQR(M)	(U25971) MHC class 1 antigen HLA-A2407	2
1	141923	825673	20921.2	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFDSDAASQR(M)	(X82161) HLA-A alpha1 and alpha2 domains	2
1	159176	994765	41113.1	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFDSDAASQR(M)	(D32129) HLA-A26	2
1	282322	250934	38703.4	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFDSDAASQR(M)	(Z97370) human leukocyte antigen	2
1	133479	717123	40895.1	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFDSDAASQR(M)	(U18930)MHC class 1 antigen HLA-A2	2
1	49436	785055	38355.8	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFDSDAASQR(M)	(M160010) HLA-AH class 1 antigen (AA at 30)	2
1	277806	2394324	10423.4	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFDSDAASQR(M)	(AF07310) MHC class 1 antigen	2
1	277805	2394322	10430.3	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFDSDAASQR(M)	(AF07309) MHC class 1 antigen	2
1	277713	2394009	21027.3	HOMO SAPIENS	1956.9052	0.2948	(Y)VDDTQFVRFDSDAASQR(M)	(AF012767) MHC class 1 antigen HLA-A heavy chain	2

FIG. 5B



Applicant(s): Roman M. Chic et al.

## PROFILING AND CATALOGING EXPRESSED PROTEIN TAGS

gb/AA548636/AA548636 nj 38d02.s1 NCI CGAP AA1 Homo Sapiens cDNA clone  
IMAGE 994755 similar to gb:z46633 HLA CLASS I HISTOCOMPATIBILITY  
ANTIGEN, A-2 A\*0201 ALPHA (HUMAN);  
Length = 539

## Plus Strand HSPs:

Score = 30 (41.9 bits), Expect = 8.1e-05, p = 8.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame = +2

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 152 VDDTQFVRFSDAASQRM 205

gb/AA147151/AA147151 zo32d06.r1 Stratagene colon (#937204) Homo sapiens  
cDNA clone 5885875 similar to gb:M64740 HLA CLASS I  
HISTOCOMPATIBILITY ANTIGEN, A-24 (A-9) A\*2402 ALPHA (HUMAN);  
Length = 581

## Plus Strands HSPs:

Score = 90 (41.9 bits), Expect = 8.1e-05, p = 8.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame = +1

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 13 VDDTQFVRFSDAASQRM 66

gb/H23377/H23377 ym57e02.r1 Homo sapiens cDNA clone 52227 5' similar to  
gb:x00492 cds1 HLA CLASS I HISTOCOMPATIBILITY ANTIGEN, A-3A A\*0301  
ALPHA (HUMAN);  
Length = 459

## Plus Strand HSPs:

Score = 90 (41.9 bits), Expect = 8.1e-05, p = 8.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame = +1

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 154 VDDTQFVRFSDAASQRM 207

gb/RL13904/RL13904 yf62c03.r1 Homo sapiens cDNA clone 26801 5' similar to  
gb:m64742 cds1 HLA CLASS I HISTOCOMPATIBILITY ANTIGEN, A-23(A-9)  
A\*2301 (HUMAN);  
Length = 459

## Plus Strand HSPs:

Score = 90 (41.9 bits), Expect = 8.1e-05, p = 8.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame = +2

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 146 VDDTQFVRFSDAASQRM 199

gb/RL20666/RL20666 yf54d10.r1 Homo sapiens cDNA clone 26062 5' similar to  
gb:x00492 cds1 HLA CLASS I HISTOCOMPATIBILITY ANTIGEN, A-3A A\*0301  
alpha (human);  
Length = 405

## Plus Strand HSPs:

Score = 90 (41.9 bits), Expect = 8.1e-05, p = 9.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame = +2

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 158 VDDTQFVRFSDAASQRM 211

gb/AA132653/AA132653 zo21a05.r1 Stratagene colon (#937204) Homo sapiens  
cDNA clone 587504 5' similar to gb:z46633 HLA CLASS I  
HISTOCOMPATIBILITY ANTIGEN, A-2 A\*0201 ALPHA (HUMAN);  
Length = 428

## Plus Strand HSPs:

Score = 90 (41.9 bits), Expect = 8.1e-05, p = 8.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame = +3

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 158 VDDTQFVRFSDAASQRM 203

gb/RS9764/RS9764 yh07c05.r1 Homo sapiens cDNA clone 42563 5' similar to  
gb:x00492 cds1 HLA CLASS I HISTOCOMPATIBILITY ANTIGEN, A-3 A\*0301  
ALPHA (HUMAN);  
Length = 461

## Plus Strands HSPs:

Score = 90 (41.9 bits), Expect = 8.1e-05, p = 8.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame = +1

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 138 VDDTQFVRFSDAASQRM 210

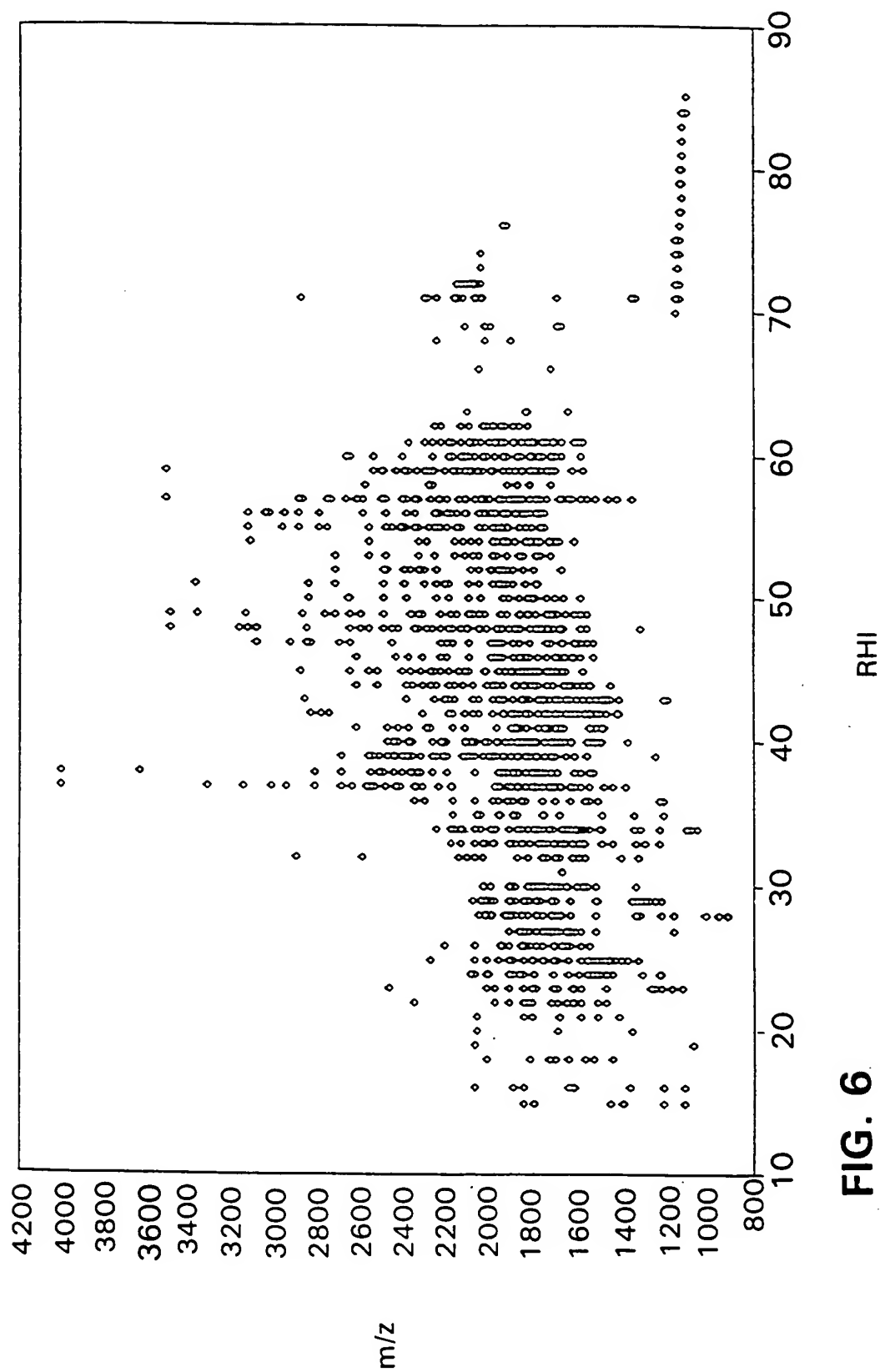
gb/AA488534/AA488534 ab37f08.r1 Stratagene HeLa cell s3 937216 Homo  
sapiens cDNA clone 843015 5' similar to gb:L06425 HLA CLASS I  
HISTOCOMPATIBILITY ANTIGEN, A-34(A-10) A\*3402 ALPHA (HUMAN);  
Length = 478

## Plus Strand HSPs:

Score = 90 (41.9 bits), Expect = 8.1e-05, p = 8.1e-05  
Identities = 18/18 (100%), Positives = 18/18 (100%), Frame = +3

Query: 1 VDDTQFVRFSDAASQRM 18  
VDDTQFVRFSDAASQRM  
Sbjct: 138 VDDTQFVRFSDAASQRM 191

FIG. 5C



**FIG. 6**